

***LineUp With Math™* Alignment**  
**Maine Mathematics Grade Level Expectations Spring 2004**

**Cluster 1 – Numbers and Operations**

**A. Numbers and Number Sense**

**Grade Level Expectations**

M1A3.8 Apply concepts of ratios, proportions, percents, and number theory (e.g. primes, factors, and multiples) in practical or other mathematical situations.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

**B. Computation**

**Grade Level Expectations**

M1B2.8 Create, solve, and justify the solution for multi-step, real-life problems including those with ratio and proportion.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**Cluster 2 – Shape and Size**

**F. Measurement**

**Grade Level Expectations**

M2F2.8 Develop and use concepts that can be measured directly, or indirectly (e.g., the concept of rate).

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.